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Country: JP Japan

Kind: A

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TOHO TITANIUM CO LTD
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IPC Code: C23F 1/26; A61C 8/00; A61F 2/28; A61L 27/00; B24B 1/00;

Priority Number: Oct. 30, 1989 JP1989000282570

Abstract:

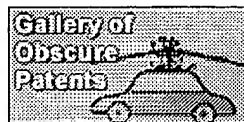
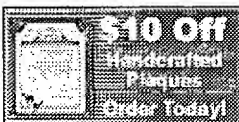
PURPOSE: To make irregular fine recesses in the surface of at least the embedded part of a living body-restoring member made of Ti or Ti alloy and to enhance the adhesive strength of the member to tissue by immersing the member in an aq. HF soln. and treating it with a mixed aq. soln./contg. HF and H₂O₂.

CONSTITUTION: The surface of at least the embedded part of a living body-restoring member for dentistry or surgery made of Ti or Ti alloy is pretreated by immersion in a 1-6 wt.% aq. HF soln. for 30sec-3min. The pretreated surface is then treated by immersion in an aq. soln. prepd. by mixing a 1-6% aq. HF soln. with a 1-10% aq. H₂O₂ soln. for 10-60sec. By this treatment, irregular fine recesses of 1-10µm average diameter and 0.5-5µm average depth are made in the surface of at least the embedded part and a certain anchoring effect can be produced between the surface of the restoring member and bone tissue, etc.

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